

health.

L9 ANSWER 11 OF 11 CIN COPYRIGHT 2004 ACS on STN  
AN 14(11):10624J CIN  
S0 Drug Cosmet. Ind., Feb 1985 (850200), 136(2), p. 84. ISSN: 0012-6527;  
CODEN: DCINAQ.  
LA English  
AB Hydrosilk 10,000 is a 12-percent active aqueous solution of hydrolyzed  
silk protein developed by Croda Inc., which says this is the first time  
that a freely water-...soluble... \*\*silk... \*\*protein... has  
been offered for ...cosmetic... use. Described as a functional  
product that offers the well-known benefits of hydrolyzed proteins  
(moisturizing, body, and ability to coat the ...hair... shaft) it  
minimized damaged appearance and feel.

=> log h  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY 58.11	SESSION 87.80
SINCE FILE	TOTAL
ENTRY -0.70	SESSION -0.70

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 23:34:36 ON 03 SEP 2004

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 12:18:05 ON 17 SEP 2004

=> index biosci(water (10a) soluble) and (silk (w) fibroin or protein)  
'BIOSCI(WATER' IS NOT A VALID FILE NAME  
<-----User Break----->

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ENTER A FILE NAME OR (IGNORE):ignore  
'10A' IS NOT A VALID FILE NAME  
ENTER A FILE NAME OR (IGNORE):ignore  
'SOLUBLE' IS NOT A VALID FILE NAME  
ENTER A FILE NAME OR (IGNORE):ignore  
'AND' IS NOT A VALID FILE NAME  
ENTER A FILE NAME OR (IGNORE):ignore  
'IGNORE' IS NOT A VALID FILE NAME  
ENTER A FILE NAME OR (IGNORE):ignore  
AT LEAST TWO FILES ARE NEEDED FOR STNINDEX  
SESSION CONTINUES IN THE PREVIOUS FILE ENVIRONMENT  
To see a list of files and clusters that may be used in the INDEX  
command, enter HELP FILE NAMES or HELP CLUSTER NAMES at an arrow  
prompt. Only the learning files and NBSFLUIDS may not be used in

STNINDEX.

=> index biosci  
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST  
INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, AQUALINE, ANABSTR, ANTE,  
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,  
BIOTECNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,  
CROPU, DISSABS, DDFB, DDFU, DGENE, ...' ENTERED AT 12:20:36 ON 17 SEP  
2004

74 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0\* with SET DETAIL OFF.

=> ,s (water (10a) solub?) and (silk (w) (fibroin or protein))

1 FILE AGRICOLA  
1 FILE ANTE  
1 FILE AQUASCI  
1 FILE BIOENG  
7 FILE BIOSIS  
9 FILE BIOTECHABS  
9 FILE BIOTECHDS  
2 FILE BIOTECNO  
15 FILES SEARCHED...

27 FILE CAPLUS  
2 FILE CEABA-VTB  
1 FILE CEN  
4 FILE CIN  
1 FILE CROPU  
1 FILE DDFB  
59 FILE DGENE  
28 FILES SEARCHED...

1 FILE DRUGB  
6 FILE EMBASE  
3 FILE ESBORASE  
2 FILE GENBANK  
10 FILE IFIPAT  
22 FILE JICST-EPLUS  
46 FILES SEARCHED...

1 FILE LIFESCI  
4 FILE MEDLINE  
1 FILE NTIS  
10 FILE PASCAL  
23 FILE PROMT  
17 FILE SCISEARCH  
236 FILE USPATFULL  
20 FILE USPAT2  
68 FILES SEARCHED...

43 FILE WPIDS  
4 FILE WPJFV  
43 FILE WPINDEX

32 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STINDEX

L1 QUE (WATER (10A) SOLUB?) AND (SILK (W) (FIBROIN OR PROTEIN))

=> s l1 not hydrolyz?

1 FILE AGRICOLA  
1 FILE ANTE  
1 FILE AQUASCI  
1 FILE BIOENG  
7 FILE BIOSIS  
6 FILE BIOTECHABS  
6 FILE BIOTECHDS  
2 FILE BIOTECHNO  
17 FILES SEARCHED...

26 FILE CAPLUS  
2 FILE CEABA-VTB  
1 FILE CEN  
2 FILE CIN  
1 FILE CROPU  
1 FILE DDFB  
1 FILE DGENE  
59 FILE DGENE  
28 FILES SEARCHED...

1 FILE DRUGB  
6 FILE EMBASE  
3 FILE ESBIOBASE  
2 FILE GENBANK  
6 FILE IFIPAT  
22 FILE JCST-EPLUS  
1 FILE LIFESC  
48 FILES SEARCHED...

4 FILE MEDLINE  
1 FILE NTIS  
10 FILE PASCAL  
12 FILE PROMT  
17 FILE SCISEARCH  
92 FILE USPATFULL  
7 FILE USPAT2  
71 FILES SEARCHED...  
41 FILE WPIDS  
4 FILE WPIFV  
41 FILE WPINDEX

32 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STINDEX

L2 QUE L1 NOT HYDROLYZ?

=> s l2 and (skin or hair)

1 FILE BIOTECHABS  
1 FILE BIOTECHDS  
15 FILES SEARCHED...

4 FILE CAPLUS  
1 FILE CIN  
1 FILE DDFB  
6 FILE DGENE  
28 FILES SEARCHED...

1 FILE DRUGB  
38 FILES SEARCHED...

5 FILE IFIPAT

46 FILES SEARCHED...

7 FILE PROMT

63 FILES SEARCHED...

60 FILE USPATFULL  
5 FILE USPAT2  
16 FILE WPIDS  
3 FILE WPIFV  
16 FILE WPINDEX

14 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STINDEX

L3 QUE L2 AND (SKIN OR HAIR)

=> d rank  
F1 60 USPATFULL  
F2 16 WPIDS  
F3 16 WPINDEX  
F4 7 PROMT  
F5 6 DGENE  
F6 5 IFIPAT  
F7 5 USPAT2  
F8 4 CAPLUS  
F9 3 WPIFV  
F10 1 BIOTECHABS  
F11 1 BIOTECHDS  
F12 1 CIN  
F13 1 DDFB  
F14 1 DRUGB

=> file hits

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY  
6.84

TOTAL SESSION  
7.68

FILE 'USPATFULL' ENTERED AT 12:28:00 ON 17 SEP 2004  
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=> s l3

<-----User Break----->

SEARCH ENDED BY USER

SEARCH ENDED BY USER

=> file hits -dgene

COST IN U.S. DOLLARS

FULL ESTIMATED COST

14.44

22.12

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Enter "HELP STN" for information on contacting the nearest STN Help

Desk by telephone or via .SEND in the STNMAIL file.

=> s l3

L4 8 FILES SEARCHED...

103 L3

=> d his

(FILE 'HOME' ENTERED AT 12:18:05 ON 17 SEP 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, AQUALINE, ANABSTR, ANTE,  
AQUASCI, BIOSUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,  
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,  
CROPU, DISSABS, DDFB, DDFU, DGENE, ...' ENTERED AT 12:20:36 ON 17 SEP 2004  
SEA (WATER (10A) SOLUB?) AND (SILK (W) (FIBROIN OR PROTEIN))

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1 FILE AQUASCI

1 FILE BIOENG

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1 FILE DDFB

59 FILE DGENE

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10 FILE IFIPAT

22 FILE JICST-EPLUS

1 FILE LIFESCI

4 FILE MEDLINE  
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 59 FILE DGENE  
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 4 FILE MEDLINE  
 1 FILE NTIS  
 10 FILE PASCAL  
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 17 FILE SCISEARCH  
 92 FILE USPATFULL  
 7 FILE USPAT2  
 41 FILE WPIDS  
 4 FILE WPIFV  
 41 FILE WPINDEX  
 41 QUE L1 NOT HYDROLYZ?  
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 SEA L2 AND (SKIN OR HAIR)  
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 1 FILE BIOTECHABS  
 1 FILE BIOTECHDS  
 4 FILE CAPLUS  
 1 FILE CIN  
 1 FILE DDFB  
 6 FILE DGENE  
 1 FILE DRUGB

5 FILE IFIPAT  
 7 FILE PROMT  
 60 FILE USPATFULL  
 5 FILE USPAT2  
 16 FILE WPIDS  
 3 FILE WPIFV  
 16 FILE WPINDEX  
 16 QUE L2 AND (SKIN OR HAIR)  
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 L3  
 FILE 'USPATFULL, WPIDS, PROMT, DGENE, IFIPAT, USPAT2, CAPLUS, WPIFV, BIOTECHDS, CIN, DRUGB' ENTERED AT 12:28:46 ON 17 SEP 2004  
 L4  
 103 S L3  
 => dup rem L4  
 PROCESSING COMPLETED FOR L4  
 L5 89 DUP REM L4 (14 DUPLICATES REMOVED)  
 => s L5 and (spider (w) dragline)  
 L6 3 L5 AND (SPIDER (W) DRAGLINE)  
 => d L6 bib ab 1-3  
 L6 ANSWER 1 OF 3 USPATFULL ON STN  
 AN 2004:172814 USPATFULL  
 TI Method for purifying and recovering silk proteins in soluble form and uses thereof  
 IN Fehnstock, Stephen R., Wilmington, DE, UNITED STATES  
 PI Schultz, Thomas M., Randolph, NJ, UNITED STATES  
 US 2004132978 A1 20040708  
 AI US 2003-704337 A1 20031107 (10)  
 PRAI US 2002-425617P. 20021112 (60)  
 DT Utility  
 FS APPLICATION  
 LREP POTTER ANDERSON & CORROON LLP, ATTN: KATHLEEN W. GEIGER, ESQ., P.O. BOX 951, WILMINGTON, DE, 19899-0951  
 CLAIM Number of Claims: 20  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 1383  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB \*\*\*soluble\*\*\* form is described. The method is based upon precipitation of the \*\*\*silk\*\*\*. \*\*\*protein\*\*\* at a temperature below room temperature, which results in a protein pellet that redissolves in water without the addition of harsh chemicals. When the precipitation is done at room temperature, the resulting protein pellet cannot be redissolved in \*\*\*water\*\*\*. Applications for the \*\*\*water\*\*\* - \*\*\*soluble\*\*\* silk proteins in cosmetics, \*\*\*skin\*\*\* care, \*\*\*hair\*\*\* care, \*\*\*hair\*\*\* coloring products, and for pigment coating and wound healing bandages are described.  
 L6 ANSWER 2 OF 3 WPIDS COPYRIGHT 2004 THOMSON DERWENT ON STN

AN 2004-420314 [39] WPIDS  
DNC C2004-157866  
TI Purifying and recovering recombinant silk proteins in \*\*\*water\*\*\* -  
\*\*\*soluble\*\*\* form, useful in the production of cosmetics, \*\*\*skin\*\*\*  
care and \*\*\*hair\*\*\* care compositions, and/or pigment coating and  
wound healing bandages.  
DC B04 D16  
IN FARNESTOCK, S R; SCHULTZ, T M  
PA (FAHN-I) FARNESTOCK S R; (SCHU-I) SCHULTZ T M; (DUPO) DU PONT DE NEMOURS &  
CO E I  
CYC 28  
PI WO 2004044172 A2 20040527 (200439)\* EN 38  
RW: AT BE BG CH CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO  
SE SI SK TR  
W: JP  
US 2004132978 A1 20040708 (200445)  
ADT WO 2004044172 A2 WO 2003-US56161 20031112; US 2004132978 A1 Provisional US  
2002-425617P 20021112, US 2003-704337 20031107  
PRA1 US 2002-425617P 20021112; US 2003-704337 20031107  
AB WO2004044172 A UPAB: 20040621  
NOVELTY - Purification of \*\*\*water\*\*\* - \*\*\*soluble\*\*\* \*\*\*silk\*\*\*  
\*\*\*protein\*\*\* from a sample containing \*\*\*water\*\*\* - \*\*\*soluble\*\*\*  
\*\*\*protein\*\*\*, is new.  
DETAILED DESCRIPTION - Purification of \*\*\*water\*\*\* - \*\*\*soluble\*\*\*  
\*\*\*silk\*\*\* \*\*\*protein\*\*\* from a sample containing  
\*\*\*water\*\*\* - \*\*\*soluble\*\*\* \*\*\*silk\*\*\* \*\*\*protein\*\*\*  
comprises  
providing a sample having \*\*\*silk\*\*\* \*\*\*protein\*\*\* in the presence  
of contaminating proteins, adjusting its pH to an acidic pH, heating the  
adjusted sample to at least 55 deg. C, removing debris from the sample,  
lowering the temperature of the heated sample to below 20 deg. C, adding a  
precipitating agent to the cooled sample to allow \*\*\*silk\*\*\*  
\*\*\*protein\*\*\* to precipitate, where the precipitated \*\*\*silk\*\*\*  
\*\*\*protein\*\*\* may be redissolved in an aqueous solution.  
The at least a portion of the \*\*\*silk\*\*\* \*\*\*protein\*\*\* in the  
method cited above is \*\*\*water\*\*\* - \*\*\*soluble\*\*\*.  
INDEPENDENT CLAIMS are also included for:  
(1) purification of \*\*\*water\*\*\* - \*\*\*soluble\*\*\* \*\*\*silk\*\*\*  
\*\*\*protein\*\*\* from a host cell containing \*\*\*water\*\*\* -  
\*\*\*soluble\*\*\* \*\*\*silk\*\*\* \*\*\*protein\*\*\*, comprising providing a  
sample having \*\*\*silk\*\*\* \*\*\*protein\*\*\*, a portion of which is  
\*\*\*water\*\*\* - \*\*\*soluble\*\*\*, disrupting the host cell to release the  
\*\*\*silk\*\*\* \*\*\*protein\*\*\* and produce a crude silk extract,  
adjusting  
the pH of the crude silk extract to an acidic pH, heating the adjusted  
sample to at least 55 deg. C, removing cell debris from the extract,  
lowering the temperature of the heated extract to below 20 deg. C, adding  
a precipitating agent to the cooled extract to allow \*\*\*silk\*\*\*  
\*\*\*protein\*\*\* to precipitate, where the precipitated \*\*\*silk\*\*\*  
\*\*\*protein\*\*\* may be redissolved in an aqueous solution; and  
(2) a cosmetic composition, \*\*\*skin\*\*\* care composition, or  
\*\*\*hair\*\*\* care composition comprising a \*\*\*water\*\*\*  
\*\*\*soluble\*\*\* \*\*\*protein\*\*\* purified by any of the methods cited  
above.  
ACTIVITY - Dermatological; Vulnerary. No biological data given.  
USE - The methods and compositions of the present invention of

purifying and recovering recombinant silk proteins in \*\*\*water\*\*\* -  
\*\*\*soluble\*\*\* form, useful in the production of cosmetics, \*\*\*skin\*\*\*  
care and \*\*\*hair\*\*\* care compositions, and/or pigment coating and  
wound healing bandages.  
Dwg. 0/0  
L6 ANSWER 3 OF 3 IFIPAT COPYRIGHT 2004 IFI ON STN  
TI 10663355 IFIPAT:IFIDB:IFIDB SILK PROTEINS IN COMPOSITIONS FOR  
\*\*\*WATER\*\*\* - \*\*\*SOLUBLE\*\*\* CARE OR \*\*\*HAIR\*\*\* COLORING  
\*\*\*SKIN\*\*\* CARE, \*\*\*HAIR\*\*\* CARE OR \*\*\*HAIR\*\*\* COLORING  
INF Farnestock; Stephen R., Wilmington, DE, US  
IN Schultz; Thomas M., Randolph, NJ, US  
PAF Farnestock Stephen R; Schultz Thomas M  
Unassigned  
PPA Unassigned Or Assigned To Individual (68000)  
AG E I DU PONT DE NEMOURS AND CO (Probable)  
E I DU PONT DE NEMOURS AND COMPANY; LEGAL PATENT RECORDS CENTER, BARLEY  
MILL PLAZA 25/ 1128, 4417 LANCASTER PIKE, WILMINGTON, DE, 19805, US  
PI US 2004170590 A1 20040902  
AI US 2004-772124 20040204  
PRA1 US 2003-448952P 20030220 (Provisional)  
FI US 2004170590 20040902  
DT Utility; Patent Application - First Publication  
FS CHEMICAL  
APPLICATION  
CLWN 22  
AB \*\*\*Skin\*\*\* care, \*\*\*hair\*\*\* care and \*\*\*hair\*\*\* coloring  
compositions comprising a \*\*\*water\*\*\* - \*\*\*soluble\*\*\* \*\*\*silk\*\*\*  
\*\*\*protein\*\*\* as an active ingredient are described. The \*\*\*water\*\*\*  
- \*\*\*soluble\*\*\* \*\*\*silk\*\*\* \*\*\*protein\*\*\* deposits onto the  
\*\*\*skin\*\*\* or the natural \*\*\*hair\*\*\* keratin to provide a smooth  
and durable film to provide added strength for protection against  
environmental, chemical, and grooming associated damage. The compositions  
may be in the form of \*\*\*skin\*\*\* care. \*\*\*skin\*\*\* cleansing, or  
anti-wrinkle products, shampoos, conditioners, lotions, aerosols, gels,  
mousses, dyes, or bleaches.  
=> s 15 and spider  
L7 5 L5 AND SPIDER  
=> s 17 not 16  
L8 2 L7 NOT L6  
=> d 18 bib ab 1-2  
L8 ANSWER 1 OF 2 USPATFULL on STN  
AN 2000131638 USPATFULL  
TI Molluscan ligament polypeptides and genes encoding them  
IN Bayley, Hagan, 1800 Springbrook Estates Dr., College Station, TX, United  
States 77845  
Cao, Qiuping, 15 Sandpiper Dr., Shrewsbury, MA, United States 01545  
Wang, Junjuan, 4300 Boyett St., Bryan, TX, United States 77801  
PI US 6127166 20001003  
AI US 1997-963168 19971103 (8)  
DT Utility  
FS Granted

EXNAM Primary Examiner: Prouty, Rebecca E.; Assistant Examiner: Monshipouri, M.

LREP Fish & Richardson P.C.

CLMN Number of Claims: 22

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 2008

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides substantially pure abductin protein and

polypeptides, polypeptides composed of multiple repeats of the  
glycine-rich repeat sequences of abductin, and hybrid polypeptides  
containing an abductin polypeptide linked to another protein or  
polypeptide, e.g., an elastin or fibroin (silk) polypeptide, as well as  
nucleic acids encoding these polypeptides. The abductin polypeptides and  
their derivatives can be used in the manufacture of a broad range of  
biomaterials ranging from light-weight durable fabric for clothing to  
matrices useful for human tissue and organ prostheses.

L8 ANSWER 2 OF 2 USPATFULL ON STN

AN 97:117682 USPATFULL

TI Compositions and methods for \*\*\*skin\*\*\* tanning and protection

IN Pickett, Loren R., Bellevue, WA, United States

PA Skin Biology, Inc., Bellevue, WA, United States (U.S. corporation)

PI US 5698184 19971216

AI US 1996-702225 19960823 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Honley, III, Raymond

LREP Townsend and Townsend and Crew

CLMN Number of Claims: 11

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 675

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions of peptides and ionic metals stimulate melanogenic activity  
in the \*\*\*skin\*\*\* while simultaneously protecting the \*\*\*skin\*\*\*  
from damage due to ultraviolet light. The compositions are useful in  
\*\*\*skin\*\*\* tanning and increasing pigmentation, and in healing  
\*\*\*skin\*\*\* damaged from exposure to ultraviolet light.

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SEA L1 NOT HYDROLYZ?

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QUE L1 NOT HYDROLYZ?

L2

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SEA L2 AND (SKIN OR HAIR)  
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L3

FILE 'USPATFULL', WPIDS, PROMT, DGENE, IFIPAT, USPAT2, CAPLUS, WPIFV,  
BIOTECHDS, CIN, DRUGB' ENTERED AT 12:28:00 ON 17 SEP 2004

FILE 'USPATFULL', WPIDS, PROMT, IFIPAT, USPAT2, CAPLUS, WPIFV, BIOTECHDS,  
CIN, DRUGB' ENTERED AT 12:28:46 ON 17 SEP 2004

L4 103 S L3  
L5 89 DUP REM L4 (14 DUPLICATES REMOVED)  
L6 3 S L5 AND (SPIDER (W) DRAGLINE)  
L7 5 S L5 AND SPIDER  
L8 2 S L7 NOT L6

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	65.63	87.75

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 12:31:54 ON 17 SEP 2004